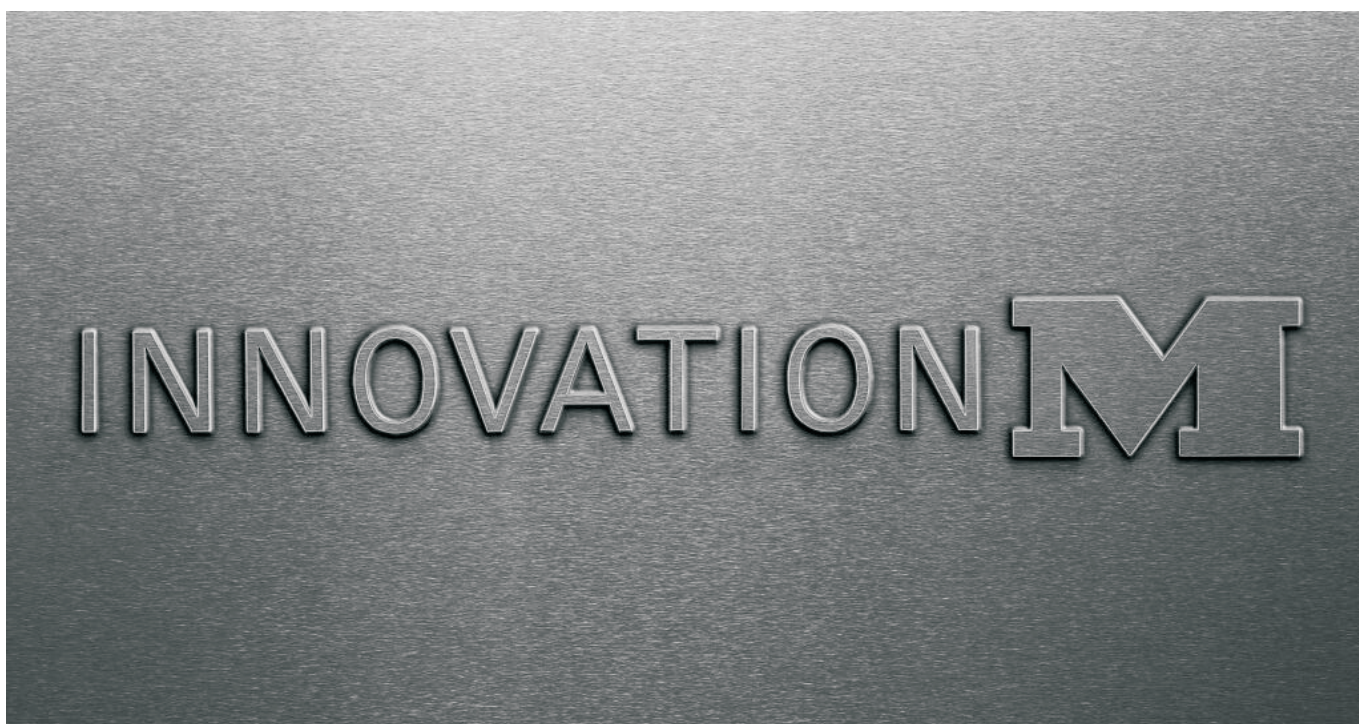


Programming instructions  
**Profitronic M**



PW 6101

PW 6131

PW 6161

PW 6201

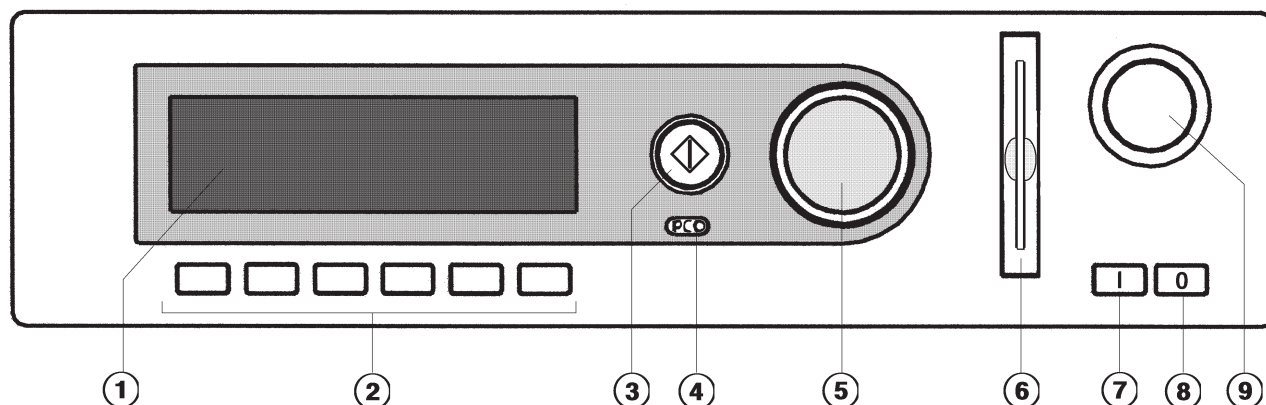
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To avoid the risk of accidents  
or damage to the machine it is  
**essential** to read these instructions  
before installing, commissioning  
and using it for the first time.





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### A description of the control elements

#### ① Display

See the following pages for more information.

#### ② Function buttons

The six buttons underneath the display are the function buttons. These buttons have specific functions depending on the status of the machine. The function is described in the display above the relevant button.

##### ⏏ Stop/End

The function button on the right-hand side is used as the End button after the start of a programme.

Once it has been pressed the selected programme is stopped or a programme which has been stopped is finished.

+⏏ Block plus

⏏ Starch stop

⏏ Spin

⏏ Without spin

⏏ Settings

⏏ Start time

⏏ Information

⏏ Manual control

⏏ Change order

⏏ Back

▼/▲ Indicates more information on next or previous line

⏏ Save

1-999 All programmes

⏏ Button to go back a stage or delete a letter or number keyed in erroneously

a→A Switch from lower to upper case

A→a Switch from upper to lower case

⏏ Water inlet

⏏ Dispensing

⏏ Dispensing switched off

⏏ Washing and heating

⏏ Drain with drum rotation

⏏ Card

✓ Selected

⏏ Blocked/locked

⏏ Data transfer

#### ③ ⏏ Start button with lighting

Starts the programme selected. The light ring flashes before the start of a programme. After a programme has started pressing it will bring up information in the display that was visible before the programme started.

#### ④ Optical interface PC

This interface is used for transferring data to the control unit from a PC and vice versa.

#### ⑤ Rotary selector

Turning the selector brings up options and menus in the display. Pressing the selector confirms your selection.


#### ⑥ Chip card reader

#### ⑦ Mains on switch

#### ⑧ Mains off switch

#### ⑨ Emergency stop switch

## Overview of operating levels

<b>User level</b> Switch the machine on to get into the user level	<b>Supervisor level</b> Use the "Settings"  button and enter a password to get into supervisor level or use a chip card.	
Start all programmes	<b>Main menu options</b>	
Start special programmes (Access control function)	<b>Language</b> A language can be selected for the duration of one wash programme	<b>Time/Date</b> Set the date and time
Start a programme using a chip card	<b>Dispensing</b> Alter dispensing data for individual programmes	<b>Access control</b> Only those programmes given free access can be started
Start a programme using a chip card only (Card access)	<b>Programming</b> Create new programmes, copy, delete and modify them	
Start programme by inserting coins or tokens	<b>Settings</b> Memory function      Basic prog. lock Buzzer                  Unit - temperature Unit - seconds        Unit - minutes Unit - hours            Unit - length Unit - weight          Unit - volume Unit - pressure        Unit - drum rotation max. temperature      max. rpm Display    Display standby    Contrast setting Button allocation    Clock display    Date display Dispensing throughput (D1 to 13) Dispensing correction factor (D1 to D13) Dispenser level reminder (D1 to 13) Password required Medium water pressure    Heater voltage Installation data - Location - Name - First name - Street - House number - Town - Post code - Telephone - System address - Installation date Currency	
	<b>Change password</b>	<b>Card access</b> The machine can only be operated using a chip card
	<b>Chip cards</b> Key card, Supervisor card	<b>Manual control</b>

# Supervisor level / Change password

## Password

A 4-digit password is required to access supervisor level.

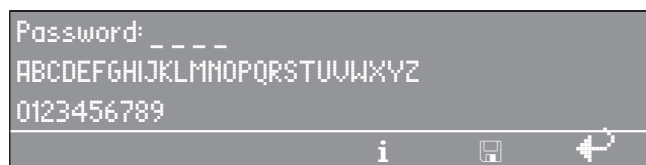
Supervisor level can only be accessed before a starting a programme or after a programme has finished.

- If you press the  button the following will appear in the display:




- After accessing "Supervisor level" and pressing the rotary selector you will be asked for your password.

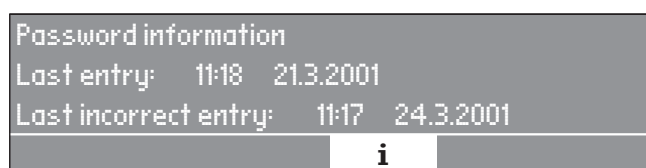
## The first time you access Supervisor level you need to use "M1LE" as your password.





- Select a letter or number by turning the rotary selector and press it to confirm your selection. The letter or number will appear in the top line.

If no selection is made within 30 seconds, the  button pressed or an incorrect password entered the screen will appear as with a power cut.

Pressing the **i** "Info" button will bring up the date the password was last entered as well as the last time it was entered incorrectly. This way it is possible to see whether unauthorised personnel know and have used the password.



The display will revert to the previous screen after 30 seconds, or you can press the  button.

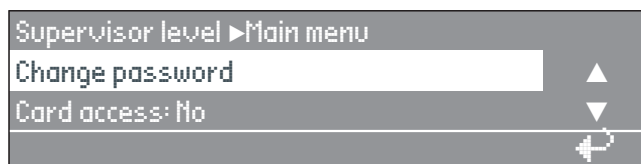
- After entering all four letters and digits press the  button to confirm your password.

You will then be in Supervisor level.




## Change password

Use this menu to change your password.



- The following will appear in the display after you have made your selection and pressed the rotary dial:



- Select a letter or number by turning the rotary selector and press it to confirm your selection. The letter or number will appear in the top line.
- After entering your password and pressing the  button the following security message will appear:



- Press the  "Save" button.

### The following can be selected via the main menu:

- Language
- Time/Date
- Dispensing
- Access control
- Programming
- Settings
- Change password
- Card access

### Language menu

This menu is used for selecting the language you want to use.

After selecting this option the following appears in the display:



The following languages are available: -  
deutsch - english  
- francais - italiano - ellinika - portugues  
- espanol - dansk - svenska - niederlands  
- suomi

The display will be in the language of your choice as soon as you select it.

The display will then revert to the main menu.

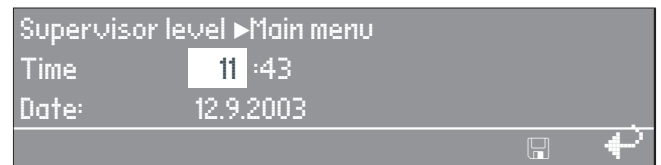
If, after going into the "Language" menu on supervisor level, the rotary dial is not moved or the start button pressed within 30 seconds, the display will revert to the main menu.


### Time / Date menu


This menu is used for setting the current date and time of day.

This information will be stored in memory for approx. 6 weeks if there is no power to the machine. After that period it will have to be reset.

After selecting this option the following appears in the display:



- Pressing the  button saves your setting and takes you out of this screen.

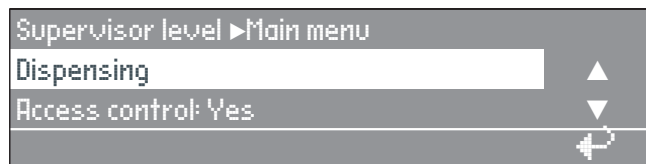
If, after going into the "Time / Date" menu on supervisor level, the rotary dial is not moved or the  button pressed within 30 seconds, the display will revert to the main menu.



# Dispensing / Access control

## Dispensing menu

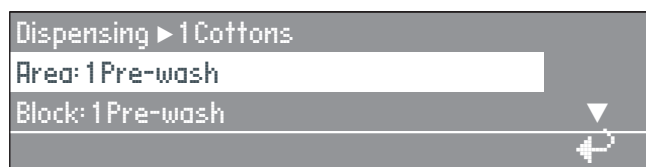
This menu is used for changing specific dispensing data. Miele programmes are saved to the same M.-Nr. after any dispensing data changes. The programme lock is not active here.



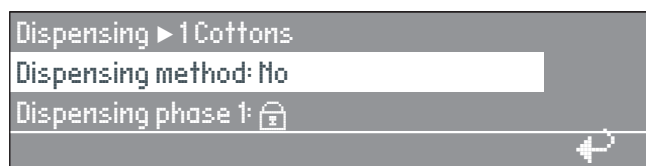
- After selecting this option the following appears in the display:



- After selecting a programme only its dispensing parameters will be shown in the display.



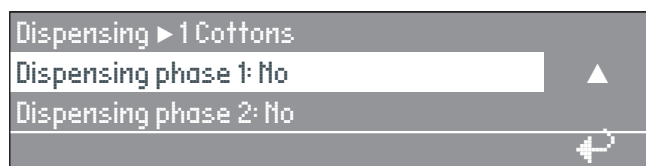
- Select the area and block you want.



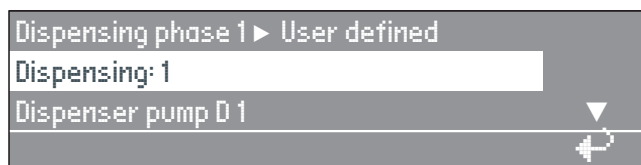
The following options are available:

- No
- Amount in ml - Concentration ml/l
- Concentration ml/kg

If you set "Dispensing method" to: "No" dispensing phases 1 and 2 are barred.



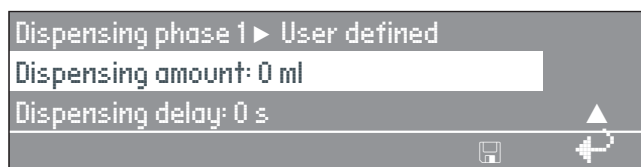
When setting the amount or concentration for dispensing phases 1 and 2 you have the choice of "No" or "User defined".



The following options are available:

Dispensing 1 to 6

Dispenser pump: - No - D1 to D13



Dispensing amount: 0 to 999 depending on dispensing method - ml - ml/l - ml/kg

Dispensing delay: - No - 0 to 999 s

- After making your selection and pressing the button to confirm your selection the display will revert to the programme list and any changes made to dispensing data will be saved in memory. Pressing the button will take you back to the programme list without saving your changes.

## Access control

If access control is set to "Yes" only those programmes which have been given free access can be selected.



The following options are available:

- No
- Yes

If a programme in the programme header has not been given free access, then the message "Programme locked" will appear in the display.





## Programme structure

<p><b>Programme header</b></p> <p>Programme number, Programme name, Material number, ID number:, Area 1-2-3, Name - Area 1-2-3, Weigh, Nominal load, Min. water level, Fill type, Access control, Lock, Peak load, Hot water control, Price</p>
<p><b>Area 1</b> <b>Pre-washes</b></p> <p>Pre-wash 1 to Pre-wash 10 (max. 10 blocks)</p>
<p><b>Area 2</b> <b>Main washes</b></p> <p>Main wash 1 to Main wash 10 (max. 10 blocks)</p>
<p><b>Area 3</b> <b>Rinses</b></p> <p>Rinse 1 to Rinse 10 (max. 10 blocks)</p>

A programme consists of a **Programme header**, a **pre-wash** area, a **main wash** area and a **rinse** area. These areas can be used individually or together to create a programme. However areas cannot be present twice. Each area is made up of individual blocks.

The programme header contains general programme structures which relate to the whole programme. See menu point "Create".

The blocks for the individual areas are all identical and contain the same basic parameters.

The simplest way of creating a new programme is to copy an existing programme, or blocks or areas from an existing programme and then to make changes to these.

Programme block
Block name
1. Block activation
2. Programm stop 1
3. Programme stop signal 1
4. Heating
5. Free temperature selection
6. Temperature
7. Hysteresis
8. Warm up
9. Water level 1
10. Water inlet 1
11. Dispensing method
12. Dispensing phase 1
13. Dispensing stop 1
14. Agitation from level
15. Water level stop 1
16. Wash time 1
17. Thermo stop
18. Water level 2
19. Water inlet 2
20. Dispensing phase 2
21. Dispensing stop 2
22. Water level stop 2
23. Wash time 2
24. Cool down
25. Wash time 3
26. Programme stop 2
27. Programme stop signal 2
28. Drain path 1
29. Drain level
30. Wash time 4
31. Drain path 2
32. Free spin speed selection
33. Spin
34. Repeat
35. Block end signal

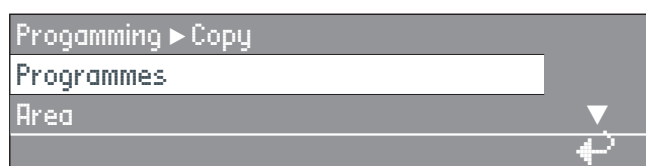
# Programming

## Copying menu

This menu is used for copying existing programme packages, programmes, areas and blocks.

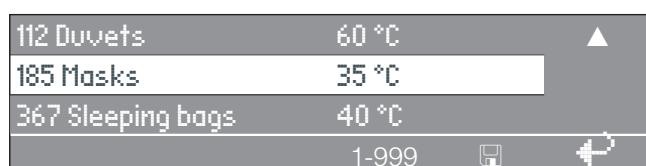
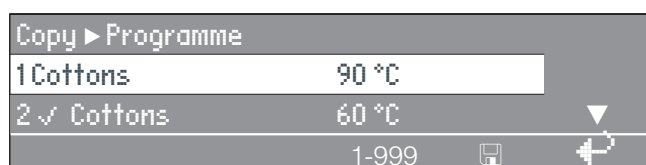



- After making your selection and pressing the rotary dial to confirm your selection the following appears in the display:



## Copy programme

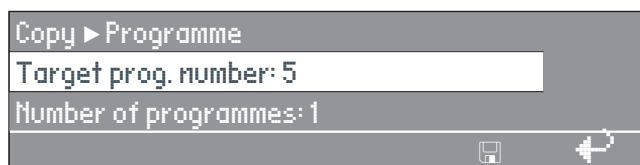
This option is used for copying all programmes, a programme package (e.g. programmes 1 to 10) or a single programme. Existing programmes are only overwritten after another confirmation to do so. After selecting this option the following will show in the display:




- After selecting a programme and pressing the rotary dial a ✓ will appear next to your selected programme. Pressing the dial again will delete the tick. Press the  button to select your option.

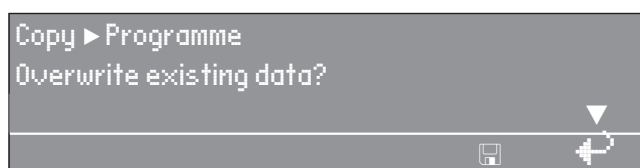
To copy all programmes press the "1-999" button. This highlights all programmes.

Programmes will be written to the first free position.

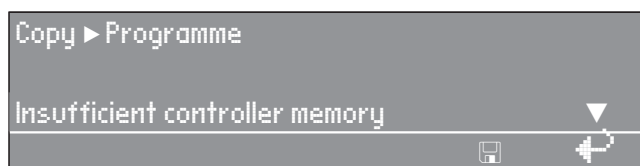


- After entering your selection and pressing the  button the copying procedure will be carried out.


If you try to copy to a programme place which is already occupied the following message will appear in the display:




If there is insufficient space in memory to take the programme the following will appear in the display:



"Insufficient controller memory" will flash in the display.

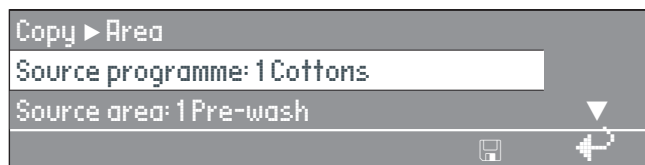
- After pressing the  button the overwriting procedure will be carried out and you will be taken back to the "Copy" sub menu.

If you press the  button or, if you do not touch any buttons in the next 30 seconds the copying procedure will not be carried out and you will be taken back to the "Copy" sub menu.

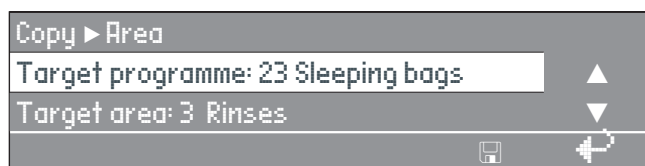
## Copy area

This option is used to copy an area from an existing programme into another programme. This adds a new area to an existing programme, or overwrites an existing area in that programme.

- After selecting this option the following will show in the display:




- Press the rotary dial, select a source programme number and then confirm your selection.
- Then go to the source area, and select pre-wash, main wash or rinses and confirm your selection.





- Select and confirm your target programme and then select and confirm the target programme number.
- Then select and confirm the target area, and select pre-wash, main wash or rinses and confirm your selection.

If a target area is not available (a name not yet defined for it) the area number and the standard name for the area will appear (target area: pre-wash, main wash, rinses)

- After entering your selection and pressing the  button the copying procedure will be carried out.

If an existing area is to be copied to a target programme position the following security message will appear in the display:



- After pressing the  button the overwriting procedure will be carried out and you will be taken back to the "Copy" sub menu. If you press the  button or, if you do not touch any buttons in the next 30 seconds the copying procedure will not be carried out and you will be taken back to the "Copy" sub menu.

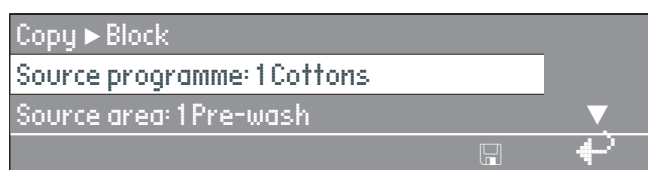
# Programming

## Copy block

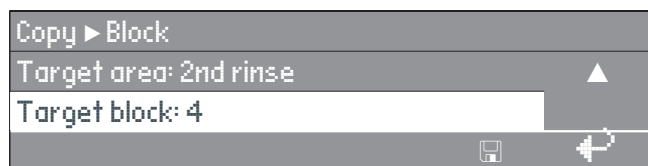
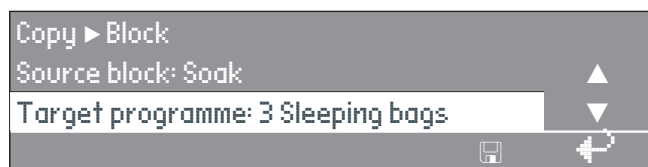
This menu option is used for copying a block from an existing programme to make a new programme or into part of a programme. A new block is added to the target programme.

If there are already 10 blocks in the target area the 10th block will be overwritten. If a block is copied into a target area which does not exist, then the new target area will automatically be allocated a name.

- After selecting this option the following will show in the display:




- Press the rotary dial, select a source programme number and then confirm your selection.
- Then go to the source area, and select pre-wash, main wash or rinses and confirm your selection.
- Select and confirm the source block option and then select and confirm the source block.





The first programme that has not been locked or the last one selected will appear as the target programme number.

- Select and confirm the target programme option and then select and confirm the target programme number.
- Then select and confirm the target area, and select pre-wash, main wash or rinses and confirm your selection.

The first free block will appear as the target block.

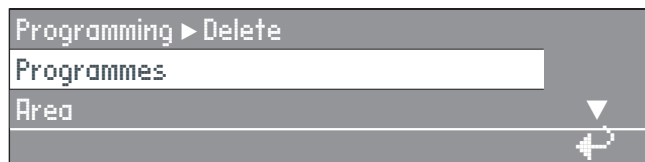
- Select and confirm the target block option and then select and confirm the target block.
- After pressing the  button the copying procedure will be carried out.

If, when copying, the 10th block needs to be overwritten, a security message will appear in the display.

- After pressing the  button the overwriting procedure will be carried out and you will be taken back to the "Copy" sub menu. If you press the  button or, if you do not touch any buttons in the next 30 seconds the copying procedure will not be carried out and you will be taken back to the "Copy" sub menu.

## Delete option

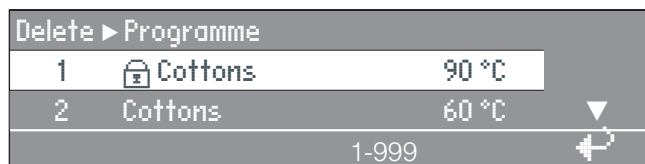
This option is used for deleting a programme package, a programme, an area or a block. After pressing the rotary dial only programme numbers of existing programmes will appear in the input field for the programme number. After selecting this option the following will show in the display:




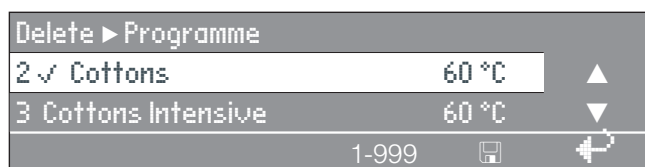
## Delete programme

This option is used for deleting all programmes, a programme package or an individual programme.

- After selecting this option the following appears in the display:

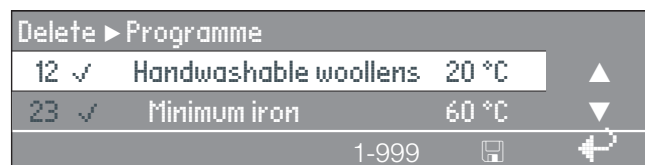



 "Locked" indicates that a programme is locked. It cannot be deleted.

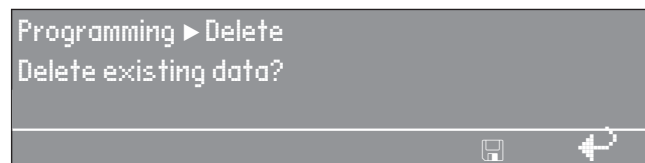




- After selecting a programme press the rotary dial to highlight it. Pressing the dial again takes the highlighting off.

To delete all "deletable" programmes press the "1-999" button. Those programmes which have been locked cannot be deleted.



- After pressing the  button the following security message will appear in the display:



- After pressing the  button the deleting procedure will be carried out and you will be taken back to the "deleting" sub menu. If you press the  button or, if you do not touch any buttons in the next 30 seconds the procedure will not be carried out and you will be taken back to the sub menu.

If there are no "deletable" programmes available the following message will appear in the display:



# Programming

## Delete area

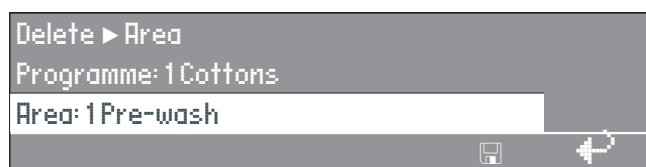
This option is used to delete an area of a programme. After selecting this option the following appears in the display:



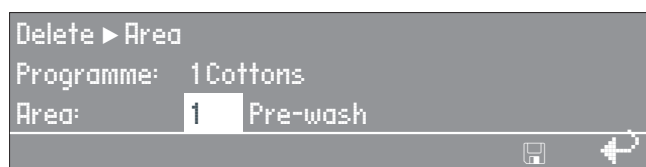
- The following will appear in the display after you have pressed the rotary dial:




- Select and confirm the programme number.





- Select and confirm the Area option.



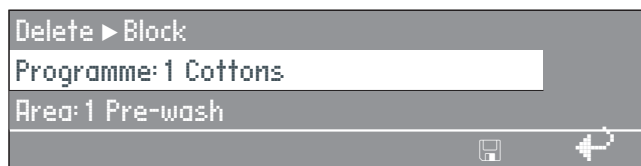
- Select and confirm the pre-wash, main wash or rinses area.

- After pressing the  button a security message will appear in the display.

After pressing the  button the deleting procedure will be carried out and you will be taken back to the sub menu. If you press the  button or, if you do not touch any buttons in the next 30 seconds the deleting procedure will not be carried out and you will be taken back to the sub menu.

## Delete block

This option is used to delete a block within an area of a programme. After selecting this option the following appears in the display:



- The following will appear in the display after you have pressed the rotary dial:



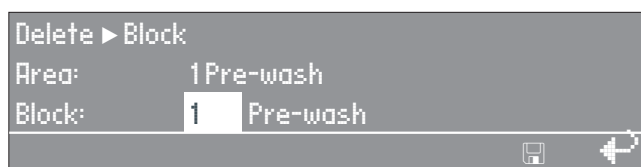
- Select and confirm the programme number.

- Select and confirm the Area option.






- Select and confirm the pre-wash, main wash or rinses area.

- Select and confirm the Block option.



- Select and confirm the block you want.


- After pressing the  button the following security message will appear in the display:


After pressing the  button the deleting procedure will be carried out and you will be taken back to the sub menu. If you press the  button or, if you do not touch any buttons in the next 30 seconds the deleting procedure will not be carried out and you will be taken back to the sub menu.

## Modify


This option is used to modify an existing programme and save it to the same programme number. If it is a Miele programme the existing material number in the programme header will be deleted if the programme has been changed and saved.

- After selecting this option the following appears in the display:


Programming ► Modify		
1	Cottons	90 °C
2	 Cottons	60 °C


 "Locked" indicates that a programme is locked. It cannot be modified.


- The following will appear in the display after you have made your selection and pressed the rotary dial:

Modify ► Programme header	
Programme number: 1	
Programme name: Cottons	

Modify options in the programme header are described under **Create, Programme header**.

- To save parameters that have already been established press the  button.

If you press the  button or, if you do not touch any buttons in the next 30 seconds the modifying procedure will not be carried out and you will be taken back to the main menu.

- Pressing the  button will take you into Block programming:


Modify ► Block programming	
Area: 1 Pre-wash	
Block: Pre-wash 1	


The area is selected here.

Modify ► Block programming	
Block: Pre-wash 1	
Block parameter	

The block is selected here.

- After selecting block parameter you get into the individual programme stages:

Block programming ► Block parameter	
Block name: Pre-wash	
1. Block activation: No	

Block programming ► Block parameter	
1. Block activation: No	
2. Programme stop 1: No	


Modify options for the individual programme stages are described under **Create, Block programming**.



# Programming

## Create menu

This option is used for creating a new programme. Individual areas, blocks and programme stages have to be specified.

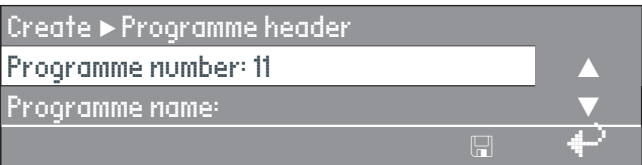
Pressing the  button in saves already specified parameters to the programme header and also takes you to the area, block or block programming.



## Programme header

### Programme number

- After selecting this option the following will show in the display:



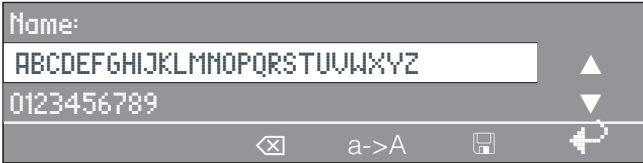
The lowest available programme number will appear in the "Programme number" input field automatically.

- After pressing the rotary dial all programme numbers, from the lowest number not yet allocated up to programme number 999 are available.

## Programme name

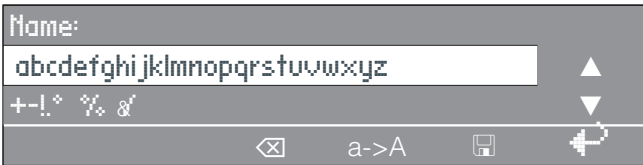


If you select the "Programme name" input field (programme name max. 25 digits long and area or block name max. 20 digits long) the letter set for naming will then appear in the display:




The cursor will jump to the first empty space on the left.

- After selecting and confirming a digit with the rotary dial the selected digit will appear in the "Name" text field.



Press the a->A function button to toggle between upper and lower case.

Use the  function button to delete a digit and move the input position to the left.

## Material number

Turn the rotary dial to access the material number input field. The material number cannot be changed! When a new programme is created in supervisor level xxxxxxxxx will appear in this position.

## ID number

The ID number cannot be changed!

Create ► Programme header

Material number: xxxxxxxxx

ID number: 123456789

## Area 1 - 2 - 3

Turn the rotary dial clockwise to access the input field for area 1.

Create ► Programme header

Area 1: No

Name Area 1: Pre-wash

Selection choice: - No  
- 1 Block up to 10 Blocks

If a number of blocks are specified then an area name needs to be given. This can be done under "Name Area 1". The first suggestion will appear here for Area 1 "Pre-wash", for Area 2 "Main wash" and for Area 3 "Rinses".

See also "Programme structure".

Create ► Programme header

Area 1: 1 Block

Name Area 1: Pre-wash

The selection and input of Name Area 1 is the same procedure as for a programme name.

The procedure for Areas 2 and 3 is the same as for Area 1.

## Weigh

By selecting and confirming this option with the rotary dial you can specify how laundry is to be weighed.

Create ► Programme header

Weigh: No

Nominal load: 10.0 kg

Selection choice:

- No

The controls assume that a nominal load is always present. You cannot enter the weight manually before starting a programme.

- manual

Laundry can be weighed by hand before starting a programme.

- automatic

The machine automatically weighs how much laundry is in the drum.

## Nominal load

By selecting a nominal load you can allocate a specific laundry weight to the programme. The max. value will depend on the machine.

Create ► Programme header

Nominal load: 10.0 kg

Minimum water level: 100 mm

Selection choice:

- 0.0 kg, 0.2 kg to 32 kg

# Programming

## Minimum water level:

By selecting the minimum water option all blocks without heating will be run using the minimum level. This value specifies the lowest level selectable.

The max. value is 350 mm.



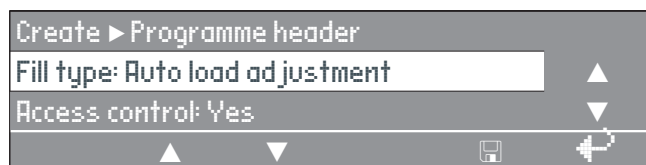
Create > Programme header  
Minimum water level: 100 mm  
Fill type: Auto load adjustment

Selection choice: - 0 mm, 2 mm to 350 mm

## Fill type

This option is used to specify how water is taken into the machine.

If when creating a programme the fill type is changed in the programme header, the basic settings for the level will be saved to the blocks again.



Create > Programme header  
Fill type: Auto load adjustment  
Access control: Yes

Selection choice:

- Auto load adjustment mm

In programmes which use auto load adjustment the amount of laundry in the drum influences the water level, the amount of detergent required and the number of rinses.

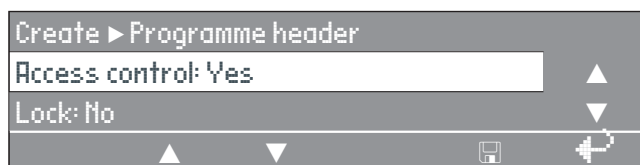
- Water level mm

When selecting - Water level mm or - Auto load adjustment the option of selecting "Concentration ml/l" is blocked in the dispensing menu and in the dispensing type menu in block programming.

- Water volume l
- Laundry to suds ratio kg/l

## Access control

When access control is selected the programme is available for use. Only programmes that have been given "Access control" can be started.

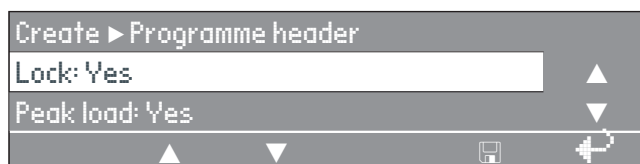


Create > Programme header  
Access control: Yes  
Lock: No

Selection choice: - No - Yes

## Lock

When the lock option is selected the programme is barred from use. A programme once started can only be stopped or cancelled by pressing the Stop/End button within the first minute of starting it. The door cannot be opened until the programme has finished.



Create > Programme header  
Lock: Yes  
Peak load: Yes

Selection choice: - No - Yes

## Peak load

With this option the programme is set up to react to a peak load. If the input signal for a peak load is detected and the programme is in a heating phase the heaters will be switched off and the programme stopped. The following will then appear in the display: Prog. stopped. Peak load cut-out.

If the programme is at thermo stop, then the thermo stop safety time remains unaffected.

Selection choice: - No - Yes

## Hot water control

Selection choice:

- No
- Yes

If hot water control is set to "Yes" the water inlet valves will be programmed automatically so that the required wash temperature is achieved during the first water intake by controlling the cold and hot water inlet valves.

If the water valves are not set to automatic the pre-selected water valves will be controlled in conjunction with the hot water control "Yes" irrespective of the required temperature.

## Price

By selecting the price option you can allocate a specific cost to the programme. This has to be paid before the programme can be started.

Selection choice: - No

If set to "No" the pricing message will not be shown.

- 0.10 to 9999.90 in 0.10 increments

## This concludes programming of the programme header.

Pressing the  button will take you into **Block programming**.

The following options can now be selected:  
1 Pre-wash, 2 Main wash, 3 Rinses.







This option is used for selecting:  
Block 1 to 10 from the selected area.


After selecting block parameter you get into the individual programme stages or the selected block.

# Programming

## Block programming

Block programming is used for specifying the individual steps in the blocks. The blocks for the individual areas are all identical and contain the same basic parameters.

Programme block	
Step	Standard settings
Block name	20 empty spaces
1. Block activation	No
2. Programme stop 1	No
3. Programme stop signal 1	No
4. Heating	No
5. Free temperature selection	No
6. Temperature	Cool air
7. Hysteresis	Normal
8. Warm up	
9. Water level 1	0 mm / 0 l / 1:0 kg/l
10. Water inlet 1	Automatic
11. Dispensing method	No
12. Dispensing phase 1	
13. Dispensing stop 1	
14. Agitation from level	Automatic
15. Water level stop 1	No
16. Wash time 1	No
17. Thermo stop	
18. Water level 2	0 mm
19. Water inlet 2	Automatic
20. Dispensing phase 2	
21. Dispensing stop 2	
22. Water level stop 2	No
23. Wash time 2	No
24. Cool down	No
25. Wash time 3	No
26. Programme stop 2	No
27. Programme stop signal 2	No
28. Drain path 1	No
29. Drain level	0 mm
30. Wash time 4	No
31. Drain path 2	Drain
32. Free spin speed selection	No
33. Spin	No
34. Repeat	No
35. Block end signal	No

 "locked" appears if the dispensing type has been programmed to "No" in the respective programme.

## Block name



Enter a name for the block.

### 1. Block activation

At the start of programming each block a decision needs to be made about the activation status of the block.

Selection choice:


– No

The programme block is not carried out.

– Permanent

The programme block is a fixed part of the programme structure and is always carried out.

– Block+

The programme block is only carried out if the +  "Block+" button is pressed.

## 2. Programme stop 1

This is used to stop a programme.

Selection choice:

- No

The programme does not stop.

- Permanent

The programme always stops at the position programmed.

- Starch stop
- Without spin

If "Starch stop" or "Without spin" are selected the programme will only stop at the position programmed if the respective button is pressed at this point.

- Spin and Starch stop

If "Spin and Starch stop" is selected the programme will only stop at the position programmed if the respective buttons are pressed at this point.

## 3. Programme stop signal 1

This is used to set the "Programme stop" output (for signal transmitter).

Selection choice:

- No

The "Programme stop" output is not controlled during a programme stop.

- Yes

The "Programme stop" output is controlled during a programme stop.

## 4. Heating

Is used to control the heating. It can, for example, be used for hot water rinsing.

Selection choice:

- Yes

The heaters are controlled in the normal way to reach the selected temperature.

- No

The heating is not switched on. The temperature selected is controlled via the water intake valves only. The Thermo stop setting has to then be set to "No". The required temperature field in the display remains empty before and after the start of the programme.

## 5. Free temperature selection

This option allows you to make a change to the temperature before starting a programme.

Selection choice:

- No

The temperature programmed into the block is always used.

- Yes

The temperature set before the start of the programme for the 1st main wash is allocated to all programme blocks if "Free temperature selection" has been set to "Yes" for all the blocks and as long as the programmed temperature is not smaller.

# Programming

## 6. Temperature

Selection choice:

- Cool air

The heating is not switched on.

- 15 to 95 °C

The temperature can be programmed in 1 °C increments.

## 7. Hysteresis


This is the temperature difference when the heating switches on and off.

Selection choice:

- Normal (Off 0 °C, On -6 °C)
- Small (Off +3 °C, On 0 °C)
- User defined  
+3 °C to -10 °C in 1°C increments

## 8. Warm up

This option is used to set how fast the water heats up.

 **Warm up** locked if programme step **4. Heating** is programmed to "No".

Selection choice:

- No
- 1°C/min to 10°C/min

The heating can be set to be on all the time

## 9. Water level 1

The fill type can be set to auto load control, water level, water volume and suds to water ratio in the programme header. With auto load control or water level you can also set the height for Water level 1.

Selection choice:

- Water volume:

0.5 l increments from 0 l up to the following values:

Model	Max. water level	Max. progr. water level
PW 6101	95 l	350 mm
PW 6131	120 l	
PW 6161	125 l	
PW 6201	152 l	
PW 6241	160 l	
PW 6321	170 l	

- Water level

The water level can be set in 2 mm increments from 0 mm up to 350 mm.

- Laundry to suds ratio

The laundry to suds ratio can be set in 0.5 kg/l increments  
from 1:0.0 kg/l up to 1:20 kg/l.



## 10. Water inlet 1

Selection choice:

- Automatic

If the water inlet valves are programmed to "automatic" the required wash temperature is achieved during the water intake by controlling the cold and hot water inlet valves.

The water inlet valves in the dispenser drawer compartments are set as follows:

	Inlet valve
Pre-wash compartment	K1, W1
Main wash compartment	K2, W2
Fabric conditioner compartment	K3
Additional agent compartment	K4
Direct water intake	KD, WD
WRG inlet valve (Water recycling)	K6

The following inlet valves are controlled according to programme block:

Programme sequence	Temperature area		
	Actual temp. > Rqrd.	Actual temp. = Rqrd.	Actual temp. < Rqrd.
Pre-wash 1	KD, K1	WD, W1, KD, K1	WD, W1, KD, K1
Pre-wash 2-10	KD, K1	WD, KD, K1	WD, W1
Main wash 1	KD, K2	WD, W2, KD, K2	WD, W2, KD, K2
Main wash 1-10 (with pre-wash)	KD, K2	KD, WD, W2, K2	WD, W2
Rinse 1	KD, K3	KD, WD, K3	WD, K3
Rinse 1	KD, K4	KD, WD, K4	WD, K4
Rinse 2	KD, K3	KD, WD, K3	WD, K3
Rinse 1	KD	KD, WD	WD
Rinse 2	KD, K4	KD, WD, K4	WD, K4
Rinse 3	KD, K3	KD, WD, K3	WD, K3
Rinse 1	KD	KD, WD	WD
Rinse 2	KD, K4	KD, WD, K4	WD, K4
Rinse 3-9	KD	KD, WD	WD
Rinse 10	KD, K3	KD, WD, K3	WD, K3

- User defined

No

4 of 10 different inlet valves

The optimum hot water intake may not always take place. However the actual temperature will never be higher than the required temperature. The controls will react beforehand to bring in a different inlet valve.

	Temperature area	
	Actual temp. > Rqrd.	Actual temp. = Rqrd.
Water valve	W1 -> K1	W1, K1
Water valve	W2 -> K2	W2, K2
Water valve	WD -> KD	WD, KD

## 11. Dispensing method

This stipulates how the agents are dispensed into the machine.

Selection choice:

- No

No dispensing takes place

- Amount in ml (millilitre)
- Concentration in ml/l (millilitre per litre)

This does not appear when programming the programme header for fill type "water level", "auto load control"

- Concentration ml/kg (millilitre per load of laundry in kg)

# Programming

---

## 12. Dispensing phase 1

This option is used for specifying the dispensing procedure for a max. of 6 dispenser pumps.

Selection choice:

– No

Dispensing does not take place.

– User defined

Dispenser pumps

1 dispenser pump per dispensing  
can be selected from D1 to D 13

Dispensing amount (depending on  
dispensing method selected)

0 to 999 ml or

0 to 50 ml/l or

0 to 50 ml/kg

Dispensing delay

0 to 999 sec.

–  with dispensing type set to "No"

## 13. Dispensing stop 1

Selection choice:

– No

The dispensing process takes place at the same time as the following programme steps. Dispensing stops at the end of wash time 1.

– Yes

Long dispensing phases are not stopped. The subsequent wash time 1 will not start until the dispensing procedure is complete.

–  with dispensing type set to "No"

## 14. Agitation from level

This defines drum agitation in the programme block after the first water intake.

Selection choice:

– Automatic

– User defined

Time     0, 15 to 59 sec  
            0 to 99 min.

Rhythm

No

Normal     12/3 sec. Wash/Pause

Gentle     5/10 sec. Wash/Pause

Gentle+    3/27 sec. Wash/Pause

User defined

On: 2 to 99 sec.

Off: 2 to 99 sec.

rpm

No

Normal

Drench

User defined 20 to 70 rpm.

Start drum rotation

Auto load adjustment

0 mm to level 1

Water level

0 mm to level 1

Water volume

0 l to level 1

Laundry to suds ratio

1:0 to 1:20 kg/l

## 15. Water level stop 1

Selection choice:

– No

Water is taken in at the right time into the following programme stages: Dispensing phase 1 and 2, Agitation from level and Wash time 1 and 2. These programme steps take place at the same time as the water intake.

– Yes

First water is taken into the machine up to the level specified and then the following programme steps are carried out. The programme stops whilst water is being taken into the machine. Drum rotation is controlled via the "Agitation from level" function.

## 16. Wash time 1

During the time specified the drum will rotate using the rhythm specified and at the spin speed set.

Selection choice:

– No


– User defined

Time      0, 15 to 59 sec  
             0 to 99 min.

Rhythm    No  
             Normal  
             Gentle  
             Gentle+  
             User defined  
             On: 2 to 99 sec.  
             Off: 2 to 99 sec.

Spin speed    No  
                 Normal  
                 Drench  
                 User defined  
                 20 to 70 rpm.

## 17. Thermo stop

 **Thermo stop** locked if programme step **4. Heating** is programmed to "No".

Selection choice:

– No

If the Thermo stop has been set to "No" the heating phase will start when the minimum heating level is reached. Wash times 1 and 2 will be carried out on a timed basis without necessarily reaching the temperature selected.

– Yes

If the Thermo stop has been set to "Yes" the heating phase will also start when the minimum heating level is reached. However wash time 2 will not start until the required temperature has been reached. Wash time 2 always starts with the required temperature.

– Disinfection

If the Thermo stop has been programmed to "Disinfection" the same conditions apply as for Thermo stop "Yes". However if a temperature has not been maintained to within 3°C of the permitted hysteresis value, e.g. because of a peak-load or a mains interruption, then the machine will go into Thermo stop again and wash time 2 and dispensing phase 2 will have to be carried out again.

## 18. Water level 2

Settings as for Water level 1

## 19. Water inlet 2

Settings as for Water inlet 1

## 20. Dispensing phase 2

Settings as for Dispensing phase 1

## 21. Dispensing stop 2

Settings as for Dispensing stop 1

## 22. Water level stop 2

Settings as for Water level stop 1

## 23. Wash time 2

Settings as for Wash time 1

## 24. Cool down

The rate at which the water is cooled down before being drained is defined here.

Selection choice:

– No

The water is not cooled down.

– Automatic

Water is taken in in stages via the valves specified in the programme step "Water inlet 2", with a cooling down rate of 3°C/min until the max. level is reached in the machine. Water is then drained to the wash level and more water then brought in in stages until the water temperature has reached 45°C. The programmed required level is reduced by 30% when it matches the maximum level in the machine.

– User defined

Cool down temperature of 20 to 95°C

Cool down rate of 1 to 20°C/min.

## 25. Wash time 3

Settings as for Wash time 1

## 26. Programme stop 2

Settings as for Programme stop 1

## 27. Programme stop signal 2

Settings as for Programme stop signal 1

## 28. Drain path 1

This option is used to specify how the water should be drained out of the machine, and where to.

Selection choice:

– No

Water is not drained away.

The spin programme step cannot then be set to spin speed faster than 70 rpm.

– Drain

This controls the drain valve.

– Reservoir

Water is drained into the water recovery system.

– Empty reservoir

The WRG water recycling system reservoir is emptied.

– Cleaning

The water in the circuit is emptied.

## 29. Drain level

A water level can be specified. A residual amount of water may remain in the suds container until the run up to spin commences. This enables certain types of laundry to be evenly distributed in the drum during spinning and helps to keep any imbalance to a minimum. The drum does not rotate.

Selection choice:

– Water level

0 mm up to Level 1 or 2

## 30. Wash time 4

Settings as for Wash time 1

## 31. Drain path 2

Settings as for Drain path 1

## 32. Free spin speed selection

Selection choice:

– No

The spin speed programmed into the block is always used.

– Yes

The spin set for the last programme block before starting a programme is used for all programme blocks. It does not matter if programme step "Free spin speed selections" was set to "yes" or "no" in the last block.

## 33. Spin

Selection choice:

– No

Spinning does not take place.

– Automatic

Spin profile

Phase	1	2	3	4	5	6
Time	1min.	1min.	1min.	3min.	3min.	2min.
Rhythm	No	12/3	No	No	No	12/3
Spin speed (rpm)	500	30	500	850	max.	30

– User defined

Up to 6 different spin phases can be programmed for each spin step.

Time 0, 1 to 59 sec  
0 to 99 min.

Rhythm No  
Normal  
Gentle  
Gentle+  
User defined 3/12 to  
(\*Total always  $\geq 15$ ) 99 to 99 sec.\*

Spin speed No  
Normal  
Drench  
User defined  
20 to 70 rpm.  
300 - max. rpm\*\*

\*\*Areas 1 to 19 and 71 to 299 rpm cannot be selected.

The maximum spin speed available depends on the machine:

Model	Max. spin speed
PW 6101	1200 rpm
PW 6131	1100 rpm
PW 6161	1150 rpm
PW 6201	1100 rpm
PW 6241	1100 rpm
PW 6321	1000 rpm

## 34. Repeat

A block or programme can be repeated.

Selection choice:

– No

No repeat.

– Block

Repeat programme blocks  
1 x block up to 9 x blocks

– Programme

Repeat programmes  
1 x programme up to 9 x programmes

## 35. Block end signal

If a programme block has finished a signal can be activated.

Selection choice:

– No

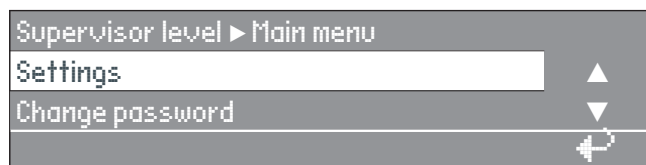
A block end signal is not given.

– Yes

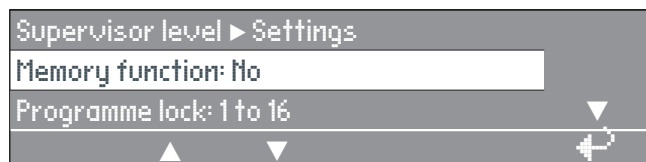
The "Block end" output relay is activated. The block end signal remains active until the End or Start button or Rotary dial are activated.

# Settings

## Settings menu




The following will appear in the display after you have pressed the rotary dial:



### Sub menu points:

Memory function  
Programme lock  
Buzzer  
Unit - Temperature  
Unit - Seconds  
Unit - Minutes  
Unit - Hours  
Unit - Length  
Unit - Weight  
Unit - Volume  
Unit - Pressure  
Unit - Drum rotation  
max. Temperature  
max. rpm  
Display  
Display standby  
Contrast setting  
Button allocation  
Clock display  
Date display  
Dispenser calibration  
Dispensing throughput (D1 to 13)  
Dispensing correction factor (D1 to D13)  
Dispenser level reminder (D1 to 13)  
Password required  
Medium water pressure  
Heater voltage  
Customer data  
Currency

To save parameters press the  button.

If you press the  button or, if you do not touch any buttons in the next 30 seconds the settings will not be changed and you will be taken back to the main menu.

## Memory function

Changes made to the temperature and spin programme parameters before starting a programme are saved after starting the programme. Functions and function buttons are not reset at the end of the programme. The next time the programme is selected they are automatically adopted.

Selection choice: - No - Yes

## Programme lock

Programmes in this area cannot be changed, deleted or overwritten.

Selection choice: - No  
- User defined  
From: 1 to 999

## Buzzer

If programmed to "Yes" the buzzer will be activated at the same time as programme stop signals 1 and 2, at the block end signal and if there is a fault stop signal. The buzzer frequency increases with a fault stop signal. To switch the buzzer off press the rotary dial. It will switch off automatically after 5 minutes.

The buzzer is not activated if it is programmed to "No".

Selection choice: - No - Yes

## Unit - Temperature, seconds, minutes, hours, length, weight, volume, pressure, drum rotation

If this is set to "auto" the units for temperature, seconds, minutes, hours, length, weight, volume, pressure and drum rotation will be the default ones set for your language.

### Unit - Temperature

Selection choice: - auto - °C - °F

### Unit - Seconds

Selection choice: - auto  
- s - sec - sg - sek

### Unit - Minutes

Selection choice: auto - min - mn

### Unit - Hours

Selection choice: - auto  
- h - timer - tim - uur - time - hr

### Unit - Length

Selection choice: - auto - mm - inches

### Unit - Weight

Selection choice: - auto - kg - l

### Unit - Volume

Selection choice: - auto  
- l - USA gal - CDN gal

### Unit - Pressure

Selection choice: - auto - bar - psi

### Unit - Drum rotation

Selection choice: - auto  
- U/min - T/min  
- rpm - t/mn - giri/min  
- kierr/min - r/min  
- omdr/min - v/min  
- o/min

## Maximum temperature selection

This value can be set from 95 °C / 203 °F to cold in 1 °C/°F steps and limits all temperature settings in the programmes to the selected value. For example if this value is set to 60 °C the temperature will not exceed 60 °C in any programme even if you have programmed a higher temperature for your selected programme.

Selection choice: 95 to 15 °C, cold

## Maximum rpm

This value can be set from 0 rpm up to the maximum permitted rpm for the machine as follows:

Area	Step	Note
		1 to 19 rpm cannot be selected.
20 rpm to 70 rpm	1 rpm	For setting drum rotation speeds during washing
		71 to 299 rpm cannot be selected.
300 rpm to max* rpm	25 rpm	For setting the spin speed.

If a spin speed, e.g. 500 rpm, is selected then the machine will not spin at speeds in excess of 500 rpm in all programmes even though the programme selected has been programmed to have a higher spin speed.

The maximum spin speed available depends on the machine:

Model	Max. spin speed
PW 6101	1200 rpm
PW 6131	1100 rpm
PW 6161	1150 rpm
PW 6201	1100 rpm
PW 6241	1100 rpm
PW 6321	1000 rpm

Selection choice: - 1200 to 300 rpm  
- 70 to 20 rpm  
- 0 rpm

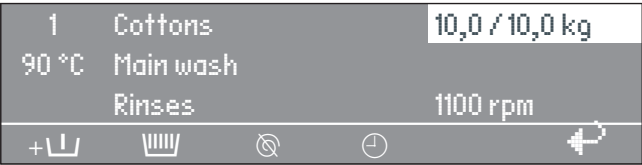


# Settings

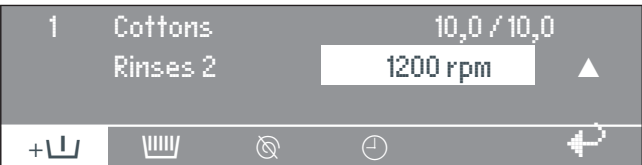
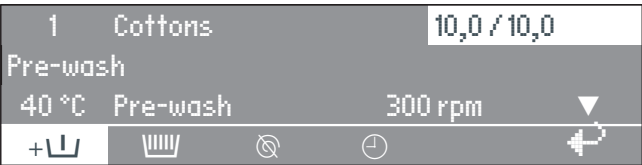
## Display

The display can be set to "Normal" or "Detailed".

In the "Normal" setting only the pre-wash and main wash temperatures, the final spin speed of the last wash block and the area name are shown in the display.



All area and block names are displayed in the "Detailed" setting.



Selection choice: - Normal - Detailed

## Standby Display

If the "Standby display" is set to: "Yes" the display comes on when a control element is pressed. If no other operational measures are taken the display will go into "Standby" mode after 10 minutes. To let you know you are in "Standby" the lightring around the Start button will flash. Pressing any control will switch the last active display back on again. If the "Standby display" is set to: "No" the display will stay on permanently.

Selection choice: - Yes - No

## Contrast setting

The display contrast has settings from 1 to 10. It can be set to suit site requirements. As soon as you change the setting the contrast will change in the display.

Selection choice: - 1 to 10

## Button allocation

If this is set to "Direct" the first 6 programmes will be allocated to function buttons 1 to 6.

Selection choice: - Normal  
- Direct

## Clock display

The clock display can be set to a 24 h or 12 h one.

Selection choice: - 24 h - 12 h

## Date display

The date is displayed according to language set as follows:

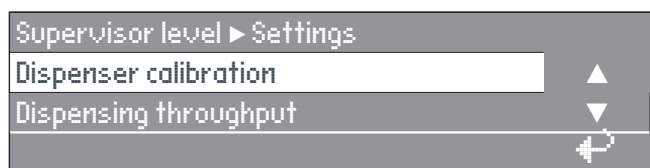
Country	Format
Deutschland, England, Niederlande, Frankreich, Italien, Finnland, Portugal, Spanien, Dänemark, Norwegen, Griechenland	Day/Month/Year
Schweden	Year/Month/Day
USA	Month/Day/Year

The date display can be changed if wished.

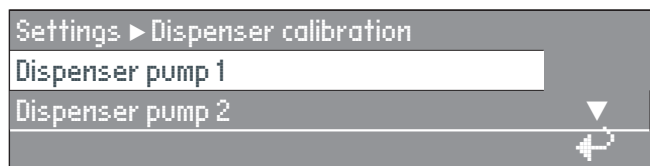
Selection choice: - auto  
- Day/Month/Year  
- Year/Month/Day  
- Month/Day/Year

## Dispenser calibration

The dispensers need to be calibrated to ensure the dispenser pumps supply the correct amount of liquid agent.

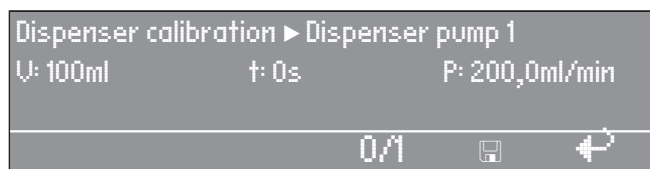


After selecting "Dispenser calibration":



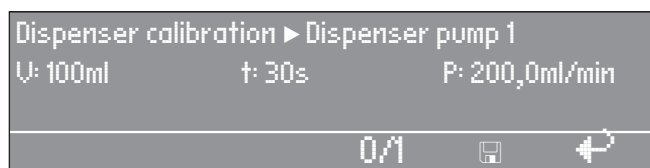
Selection choice: 1 to 13

After selecting a dispenser pump the following message will appear in the display:




The amount to dispense can be set between 0 and 999 ml in 1 ml increments.

After selecting the parameters you want press the multi-function dial to activate the dispenser pump.



The dispensing process finishes once the dispensing amount is reached by pressing the 0/1 button, or stops automatically after 60 seconds. The duration t measured will be shown in seconds and the amount drawn P will be shown in ml/min.

Press the  "Save" button to save the values.

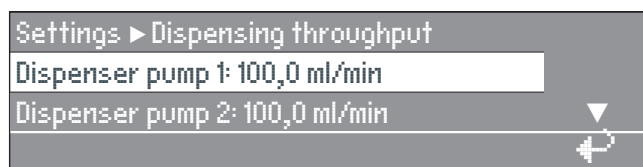
It is also possible to go straight into dispenser calibration. Switch the machine on. Then press the multi-function dial in and switch the machine on with the "Mains On" switch.

## Dispenser throughput (D1 to D13)

The throughput can be set for connected dispensers in 1 ml/min increments from 0 ml/min to 999 ml/min.



After selecting "Dispenser throughput":



Selection choice: - No  
- 1 to 999,0 ml/min

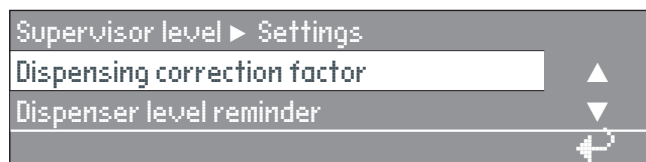
# Settings

## Dispensing correction factor (D1 to D 13)

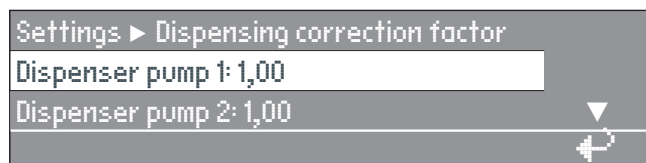
The correction factor can be used when changing from one liquid agent to another. If, for example, the agent used in dispenser pump D 1 is changed (to one with a higher concentration level), the correction factor can be used to reset the pump quickly.

To calculate the factor:

$$\text{Correction factor D1} = \frac{\text{New amount Dos-p. D1}}{\text{Current amount Dos-p. D1}}$$



After selecting "Dispensing correction factor"

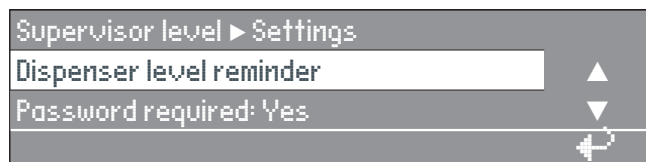


Selection choice: - 2  
- 1,99 to 0,01

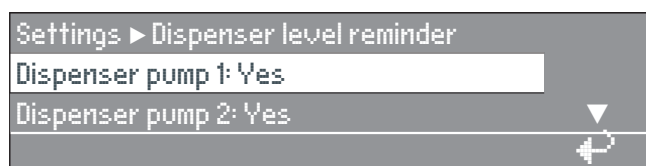
After coming out of supervisor level the new dispensing amounts will be used although the programming has not been changed.

## Dispenser level reminder (D 1 to D 13)

If you want to be reminded when a dispenser is low the relevant dispensers need to be programmed.



After selecting "Dispenser level reminder"




Selection choice: - Yes - No

## Password required

You deselect the password requirement here.

Selection choice: - Yes - No

Please be aware that if a password is currently required and you change this setting to "No" the user will be asked to enter the current password after pressing the  button.

## Medium water pressure

The machine must be set for a medium water pressure for calculating consumption data. This setting is also used for calculating the amount of water used in the individual blocks and for a complete programme.

Selection choice: - 0.1 to 50 bar  
- 1 to 800 psi

## Heater voltage

The heater voltage is required for calculating the heater rating.

Selection choice: - 500 to 0 V

## Customer data

A variety of data can be entered under customer data

Selection choice: - Location - Name  
- First name - Street - House number - Town  
- Post code - Telephone - System address  
- Installation date

Location

The type of business can be entered in this field.

Selection choice:

- Nursing and care home  
- Doctor's surgery, - Convalescence home  
- Fire/Emergency services - Restaurant/Café  
- Commercial laundry - Small business  
- Hotel/guesthouse - Industry - Youth hostel  
- Hospital - Equestrian - School - Dry cleaner  
- Communal laundry - Other

Name, First name

Street, House number

Town, Postcode

Telephone,

System address (a 10 digit system address for the machine can be entered here).

Installation date

## Currency

Selection choice:

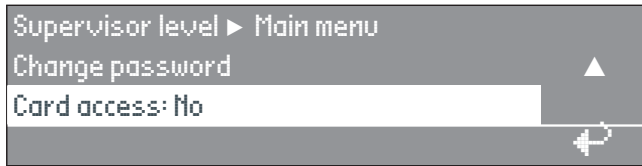
- auto (linked to the language selected)  
- EUR Euro  
- GBP Pound sterling  
- CHF Swiss francs  
- USD US dollars  
- RUB Russian rubel  
- CAD Canadian dollars  
- CZK Czech kroner  
- DKK Danish kroner  
- PLN Polish Zloty  
- SEK Swedish kroner  
- TRL Turkish Lira  
- SKK Slovakian kroner

## Chip card access

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### Chip card access option

Programmes requiring special procedures are written on to a chip card which is then used to run the programme.

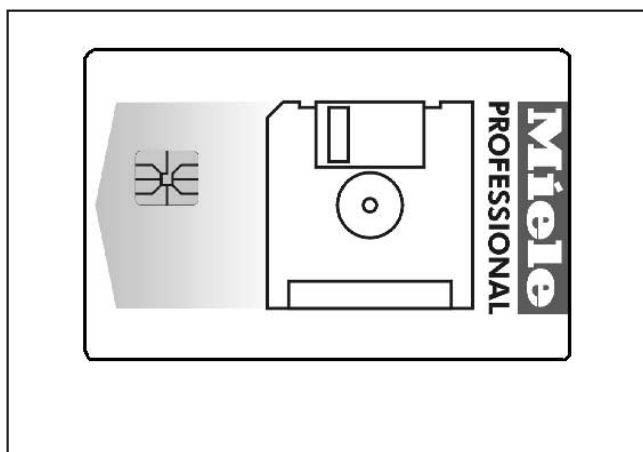


Selection choice: - No - Yes

If this option is set to "Yes" programmes can only be started by using a programme card. Programmes in the machine's control unit cannot then be accessed.



There are two different types of chip cards for use with this machine:



## Supervisor chip card

If a card containing one or more programmes is inserted in the card reader before starting a programme you will not be able to access programmes in the machine's internal memory. The programmes on the card will appear listed in the display together with the message "Card operation":

Card operation		
10	Protective clothing	45 °C
11	Minimum iron	60 °C

- Press the rotary dial to call up programme details:

10	Protective clothing	10,0 / 16,0 kg	
45 °C	Main wash		
	Rinses	1000 rpm	

- After pressing the "Start" button the programme details will be transferred to the machine. The card can then be taken out of the card reader. The programme is deleted from the machine's memory at the end of the programme as long as the card has been removed.

If the programmes on the card are not suitable for the machine you are using the following message will appear in the display:

Card operation	
Programmes on the card are only suitable for machine type PW 6201.	

The chip card can store a maximum of 30 programmes, each with 6 blocks. If the card only contains one programme, then this programme will be run.

If a card is inserted in the card reader before the start of a programme or at the end of a programme and you press the function button on the far right of the control panel a message will appear in the display about the card's contents:

Card contents	PW 6131
Programme	

In this example the card contains just one programme.

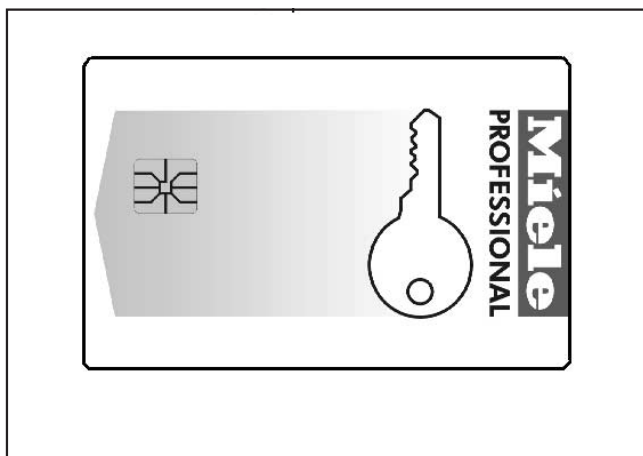
After removing the card or pressing the button the standard display will reappear.

You can use Miele PC software to lock and unlock the contents of a chip card. Data contained on a locked card cannot be altered.

If a locked card is inserted in the card reader the following message will appear for 5 seconds in the display if you select the option "Data to card" or "Delete data from card" and press the rotary dial:

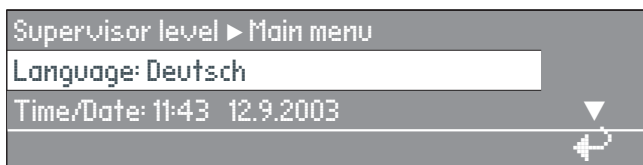
Supervisor level ▶ Main menu	
Card locked	
Data alteration not possible.	

## Chip cards



### Key card

This card enables you to get into supervisor level automatically without having to enter a password. It does not need to be left in the reader after you have accessed the supervisor level. After inserting the card in the reader the following will appear in the display:



Selection choice:

- Language
- Time/Date
- Dispensing
- Access control
- Programming
- Settings
- Change password
- Card access

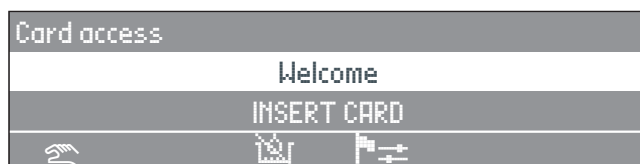
### Supervisor chip card

- For saving dispensing data, language, programmes (programme packages or back up), settings, and single programmes for card operation.

### Card access

Programmes requiring special procedures are written on to a card which is then used to run the programme. "Card access" has be activated via the supervisor level in the machine.

If there is no card in the card reader or if there are several programmes on the card the following message will appear in the display:



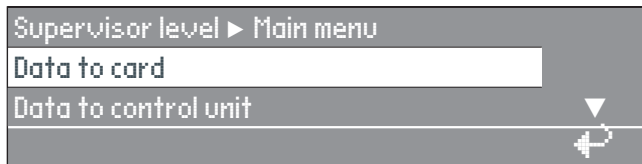
If a card with one programme on it is inserted in the reader the following (example) will appear in the display:





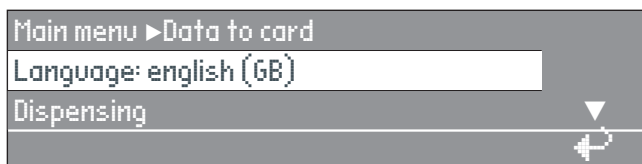
## Data to card

This option is used to write data from the machine to a card. This includes language, dispensing information, programme data and settings. It is not possible to combine data from different machines onto one card.



Selection choice: - Data to card  
- Data to control unit - Delete data from card

■ After making your selection the following appears in the display:



Selection choice:

- Language
- Dispensing
- Programme
- Settings

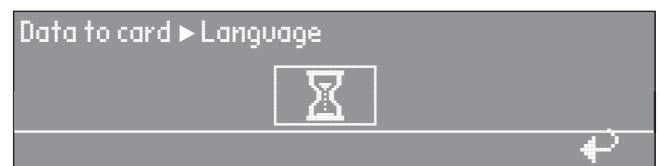
## Language data

The Profitronic M is supplied with 11 languages as standard. To select the language you want to use you have to go into supervisor level and select the "Language" menu. It is also possible to save an existing language to a card through the "Language" menu. If language data is already on the card an additional confirmation is asked for before overwriting it.

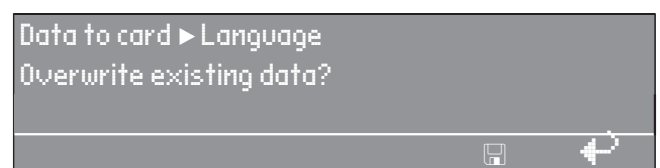



Selection choice: - all languages in the control unit.

■ The following will appear in the display after you have made your selection and pressed the rotary dial:



If language data already exists on the card the following message will appear in the display:



Press the  "Save" button to overwrite the existing data.

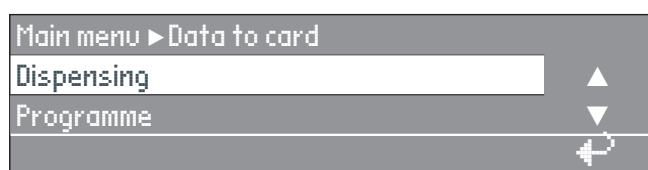
If you press the  button or, if you do not touch any buttons in the next 30 seconds the overwriting procedure will not be carried out and you will be taken back to the sub menu.

# Chip cards

## Dispensing data

This menu can be used to copy all dispensing data relating to an existing programme in the machine onto a card. Existing dispensing data is only overwritten after another confirmation to do so.

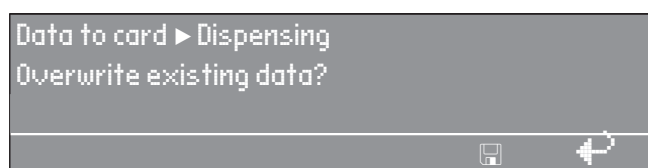
Dispensing type, dispensing phase 1, 2 (dispenser pumps, dispensing amount and level) and dispensing stop 1, 2 (yes or no) are then carried out for each programme. If you change dispensing agent it is easy to change the dispensing amount to suit. Only those dispenser pumps which are active are listed.





- The following will appear in the display after you have made your selection and pressed the rotary dial:



If dispensing data already exists on the card the following message will appear in the display:

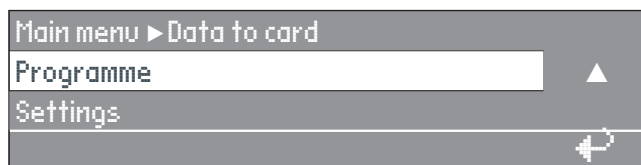


- Press the  "Save" button to overwrite the existing data.

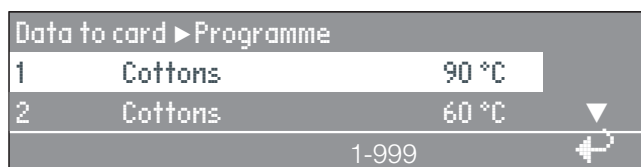
If you press the  button or, if you do not touch any buttons in the next 30 seconds the overwriting procedure will not be carried out and you will be taken back to the sub menu.

## Programme data

This menu can be used to copy a max. of 30 programmes to a card. The programmes will be copied one after the other according to the programme number in the machine. If there is only one programme on the card then the card can be used to run the programme.



- After making your selection the following appears in the display:



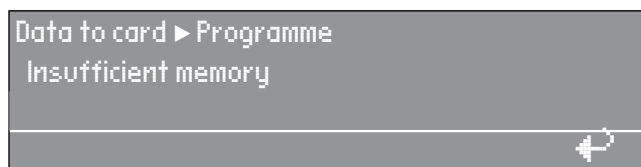
- After selecting a programme press the rotary dial to highlight it.



To copy all programmes press the "1-999" button.

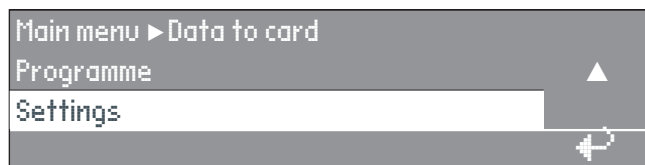
- After pressing the  button data will be copied.

If there is not enough memory to save all selected programmes to the card the following will appear in the display:



## Settings

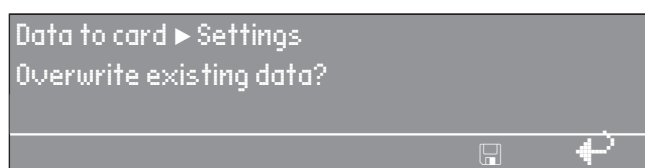
This menu is used for copying all settings from the supervisor level (see "Settings" menu) on the control unit to a card. Existing settings are only overwritten after another confirmation to do so.



- After making your selection and pressing the "Start" ⏏ button the following display will appear:



If settings data already exists on the card the following message will appear in the display:

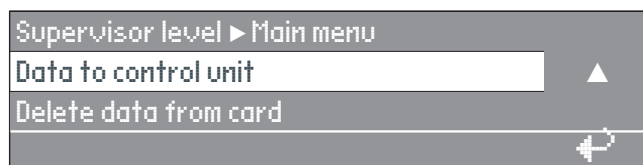


- Press the ⏏ "Save" button to overwrite the existing data.

If you press the ⏏ button or, if you do not touch any buttons in the next 30 seconds the overwriting procedure will not be carried out and you will be taken back to the sub menu.

## Data to control unit

Use this menu to write data **from a card to the control unit** (language, dispensing data, programme and settings).

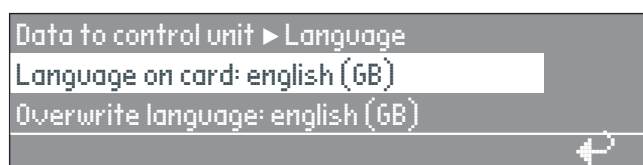


- Selection choice: - Data to card
- Data to control unit - Delete data from card

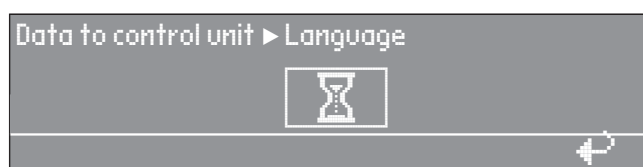
- After making your selection and pressing the "Start" ⏏ button, the display will show what is on the card.

## Language

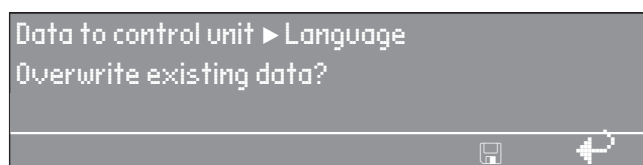
If a language has been saved to the card the following will appear in the display:



- After making your selection and pressing the rotary dial the following will appear in the display:



If there is already a language in the selected position in the control unit the following message will appear in the display:



- Press the ⏏ "Save" button to overwrite the existing data.

If you press the ⏏ button or, if you do not touch any buttons in the next 30 seconds the overwriting procedure will not be carried out and you will be taken back to the sub menu.

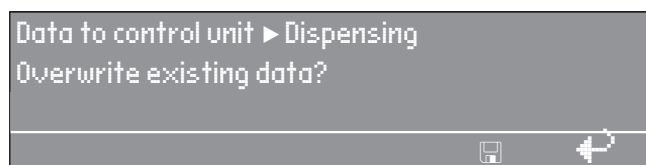
# Chip cards


## Dispensing

This menu is used for copying dispensing data from a card into the control unit. Existing dispensing data is only overwritten after another confirmation to do so. Dispensing data is only copied from programmes where the programme number, name and M.Nr match. The M.Nr of the programme is not deleted after changing dispensing data.



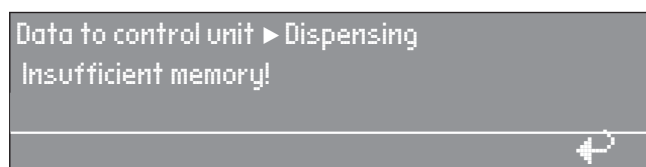
- After pressing the rotary dial the following message will appear in the display:



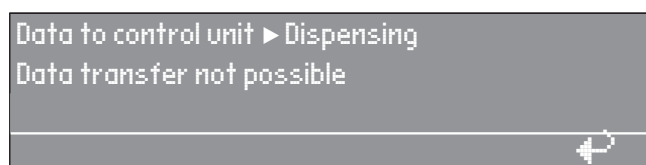
- After pressing the "Save"  button the following message will appear in the display during the data transfer process:



If it was not possible to copy all dispensing data from a card into the control unit, the following message will appear in the display after transferring the data:



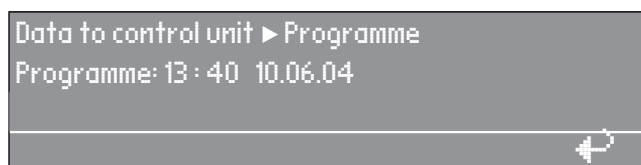
If copying does not work as described above the following message will appear in the display for 5 seconds:



## Programme

This menu is used for copying one or more programmes from a card into the control unit. It will overwrite existing programmes in the control unit.

- After making your selection the following appears in the display:




- The following will appear in the display after you have pressed the rotary dial:




Selection choice: - all programmes on the card.

- Press the rotary dial to highlight or deselect a highlighted programme. If you want to copy all programmes present to the card press the 1-999 button.

After making your selection and pressing the "Save"  button the display will show the data relating to the target programme place in the control unit.


The first free programme place in the control unit will appear from which the selected programmes on the card will be saved to.



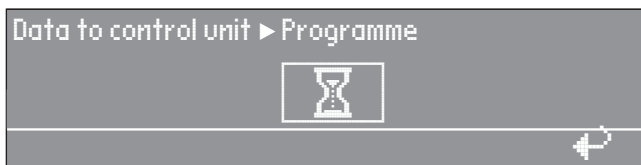
- After entering your selection and pressing the "Save"  button the data transfer will be carried out.

If there is insufficient space in memory to take the selected programmes the following will appear in the display:



If you press the  button or, if you do not touch any buttons in the next 30 seconds the transfer procedure will not be carried out and you will be taken back to the sub menu.

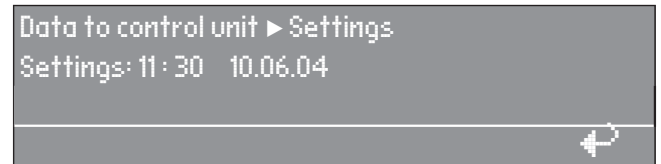
If there is sufficient memory in the control unit the following will appear in the display after the data has been successfully transferred:



If the target programme place already has a programme in it, a warning message will appear in the display.


## Settings

This menu is used for copying supervisor level settings from a card into the control unit. Existing data is only overwritten after another confirmation to do so.



- After pressing the rotary dial the following message will appear in the display:



- After pressing the "Save"  button the following message will appear in the display during the data transfer process:



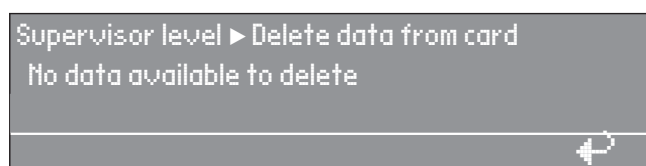
# Chip cards

## Delete data from card

This menu is used for deleting all existing data from a card.

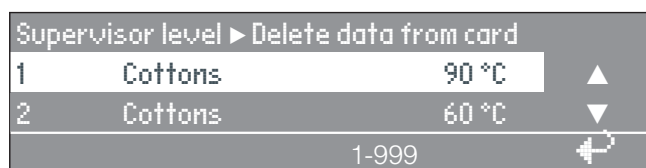



- After making your selection and pressing the rotary dial details about the card will appear in the display:



All data is now deleted.


Programmes on the card can also be deleted individually:




- After selecting a programme press the rotary dial to highlight it.
- After making your selection and pressing the "Save"  button the following message will appear:

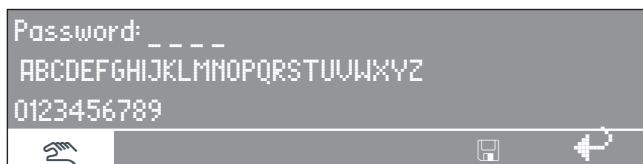


If you press the  button or, if you do not touch any buttons in the next 30 seconds the deleting procedure will not be carried out and you will be taken back to the sub menu.

- After pressing the "Save"  button data on the card or selected programmes will be deleted. The menu selection screen will then reappear.

Manual control can be set before a programme is started or during a programme stop.






- Pressing the  "Manual control" button takes you to the password screen.




After entering the password the manual control screen will appear.



This display shows the current level, rpm and temperature in the machine.

The function buttons have specific manual controls allocated to them here. Water inlet , Dispensing , Washing and heating , Drain with drum rotation , Spin .

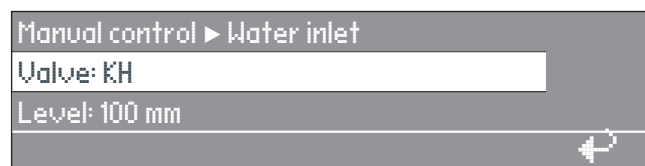
- Pressing the relevant button again deselects the function.

Pressing the  "Stop/End" stops the selected function and pressing it again takes you out of manual control.

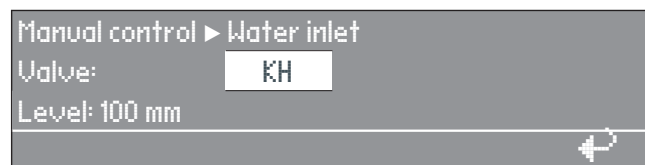
## Water inlet

The water inlet valves and the water level can be set.

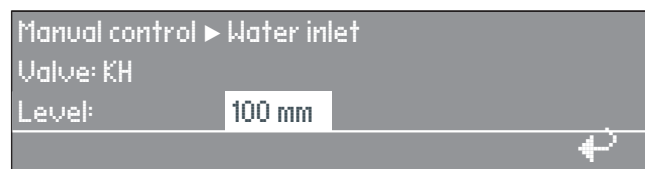
- Press the "Water inlet"  button.





- Press the rotary dial to select "Valve".



- Turn the rotary dial to find the valve you want and then press it to confirm your selection.



- Turn the rotary dial to "Level" and then press it to confirm your selection.
- Turn the rotary dial to find the level you want and then press it to confirm your selection.
- After selecting the valve and the level pressing the "Start"  button will start the water intake.

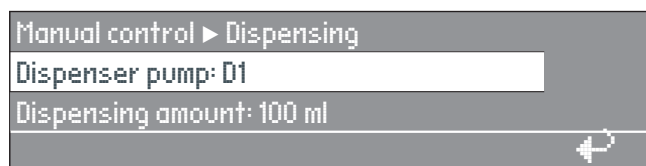
The water intake stops once the set level has been reached or if the  button is pressed again.

## Manual control

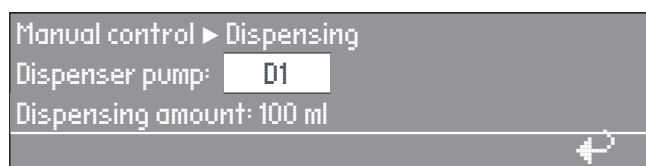
### Dispensing

The dispensing valve and the amount to dispense can be set.

- Press the "Dispensing"  button.





- Press the rotary dial to confirm "Dispenser pump".



- Turn the rotary dial to find the dispenser pump you want and then press it to confirm your selection.

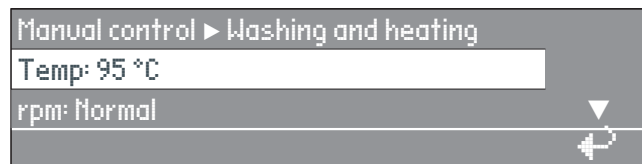




- Turn the rotary dial to "Dispensing amount" and then press it to confirm your selection.
- Turn the rotary dial to find the amount you want and then press it to confirm your selection.
- After selecting the dispenser pump and the dispensing amount pressing the "Start"  button will start the dispensing process.
- Dispensing stops once the agent has been dispensed or when the dispensing  button is pressed.

### Washing and heating

The temperature, rpm and wash rhythm can be set.


- Press the  button for washing and heating.

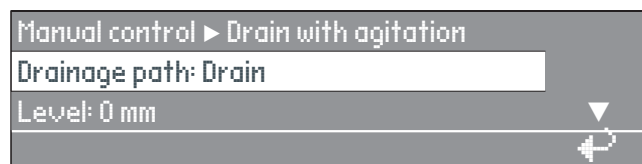




- Set the temperature followed by the rpm and then the wash rhythm.
- Then press the  "Start" button to start the washing and heating process.
- The Washing and heating process will finish when ready or when the  button is pressed again.

### Drain with agitation

The drain path, level, rpm and wash rhythm can be set.

- Press the  "Drain with agitation" button.



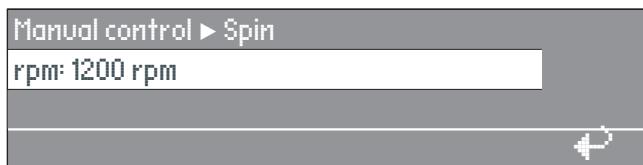
- Set the drainage path followed by the level, then the rpm and the rhythm.
- Then press the  "Start" button to start the "Drain with agitation" process.
- The "Drain with agitation" process will finish when it is ready or when the  button is pressed again.





## Spin


The spin speed can be set.

- Press the  "Spin" button.








- Set the spin speed.
- Then press the  "Start" button to start the "Spin".
- The spin will finish when it is ready or when the  button is pressed again.



Pressing the  "Stop/End" stops the selected function and pressing it again takes you out of manual control.

## Function combinations

Water inlet, Dispensing, Washing and heating can be selected at the same time.

 Water inlet	 Dispensing	 Washing and heating	 Drain with agitation	 Spin
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>





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